

FIG.1A

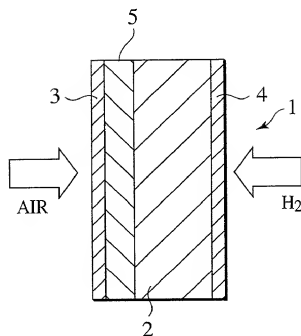


FIG.1B

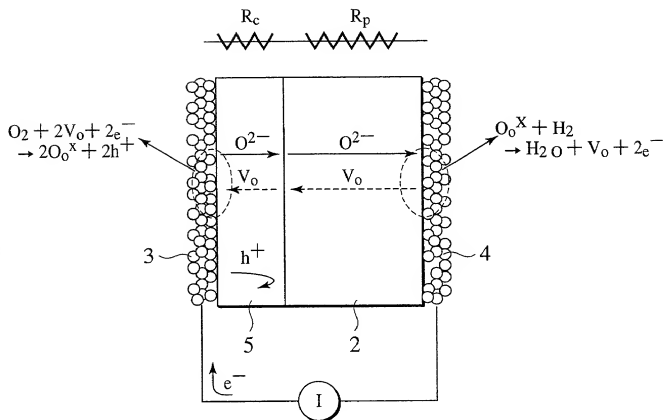


FIG.2

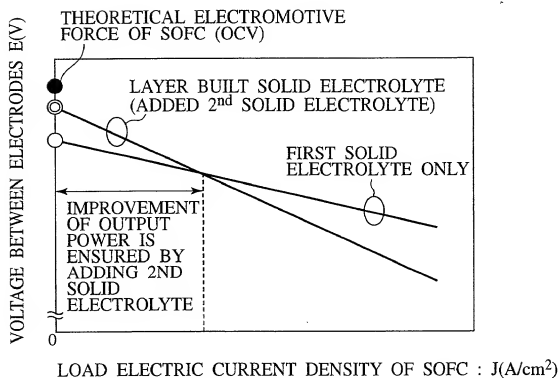


FIG.3A

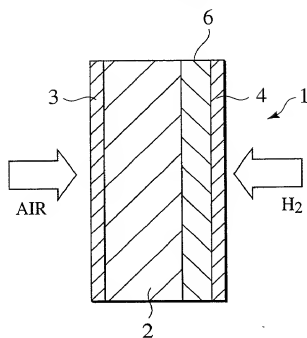


FIG.3B

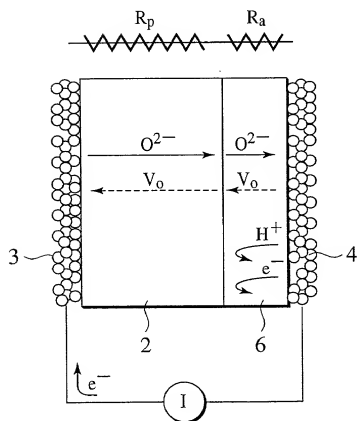


FIG.4A

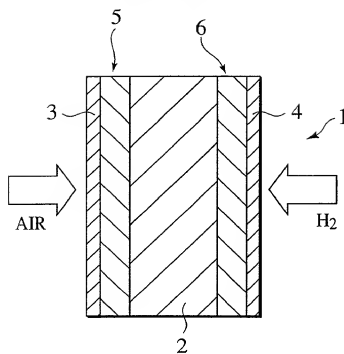


FIG.4B

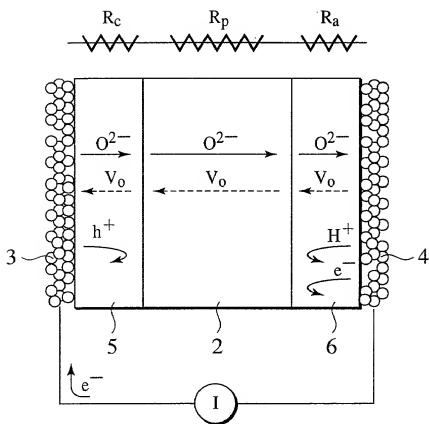


FIG.5

No.	Layer-built solid electrolyte (2nd SE / 1st SE / 3rd SE)	Ion conductivity [σ]	Ion transport number [Tol]
Example 1-a	YSZ / La _{0.75} Nd _{0.15} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d}	0.017 S/cm	94%
Example 1-b	YSZ / La _{0.8} Sm _{0.1} Ba _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d}	0.017 S/cm	94%
Example 2-a	SDC / La _{0.75} Nd _{0.15} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d}	0.018 S/cm	94%
Example 2-b	SDC / La _{0.8} Sm _{0.1} Ba _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d}	0.018 S/cm	94%
Example 3-a	La _{0.75} Nd _{0.15} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d} / YSZ	0.017 S/cm	96%
Example 3-b	La _{0.8} Sm _{0.1} Ba _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d} / YSZ	0.017 S/cm	96%
Example 4-a	YSZ / La _{0.75} Nd _{0.15} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d} / YSZ	0.016 S/cm	99%
Example 4-b	YSZ / La _{0.8} Sm _{0.1} Ba _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d} / YSZ	0.016 S/cm	99%
Example 5-a	SDC / La _{0.75} Nd _{0.15} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d} / YSZ	0.017 S/cm	99%
Example 5-b	SDC / La _{0.8} Sm _{0.1} Ba _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d} / YSZ	0.017 S/cm	99%
Comparative Example a	La _{0.75} Nd _{0.15} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d}	0.018 S/cm	91%
Comparative Example b	La _{0.8} Sm _{0.1} Ba _{0.1} Ga _{0.8} Mg _{0.2} O _{3-d}	0.018 S/cm	91%